



Schweizerische Gesellschaft für Kristallographie
Société Suisse de Cristallographie
Società Svizzera di Cristallografia
Swiss Society for Crystallography

Sektion für Kristallwachstum und Kristalltechnologie
Section de Croissance et Technologie des Cristaux



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2011
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The President's Page



Dear members,

I am writing to you in-between visits to the lab where I am attending the commissioning of a small angle scattering laboratory beamline, which was installed last week. On this occasion I would like to express a thought that has been following me since many years, in particular since I have been enjoying an extensive and active network in Switzerland. This is about the benefits of sharing infrastructure amongst the crystallographic community, and the scattering community at large, nation-wide, most labs being within several hours of travel one from another. Many of us run high-end equipment with often specific infrastructure that can serve a broader community, and I am the first to explore ways to use our labs in the most collaborative way possible. I dare to suggest we should share and advertise our labs, particularly during a funding situation that is becoming more challenging, concurring with access to large facilities getting more competitive and complicated. As a member of an association of a manageable size find ourselves in a sweet spot to share our experimental facilities.

SLS has entered its dark time and will not be available for some time, but back in better shape than ever in autumn 2025. Particularly relevant to our community is the construction of the new Debye-Beamline, which will provide a rich portfolio of operando experiments making use of X-ray scattering and spectroscopy, and I hear also surface diffraction will again be more present. Exciting for the materials science and chemistry communities investigating energy materials! And, a collaborative lab infrastructure could become more important than ever to prepare beamtimes.

A word of thanks to our corporate members. Last year you significantly contributed to a successful realization of the Society's first topical workshop on Small Angle Scattering. This year you are doing so again, and we are confident that the 2024 SSCr workshop on Pair Distribution Function Analysis will be an enjoyable and useful event. You are also continuously supporting our annual meetings in different ways, as well as contributing to our newsletter. The board is grateful that we have a close relationship to our corporate members, as we do to our academic members. Please remember to actively participate in our general assembly and, why not, to propose yourself to join the board, when elections are due.

We are coming to Basel this year for our annual meeting. Historically speaking, this is noteworthy, the SSCr met for the very first time in Basel, together with the Swiss Academy of Sciences. At the time, Nobel Prize winner Dorothy Hodgkin was invited to speak about the structure of insulin. Is 2024 the first time since that the SSCr goes back to Basel?

Coincidentally, with Dan Shechtman, November this year we will be welcoming another Nobel Laureate in Switzerland, this time to speak about quasi-crystals and general perseverance during a scientific career, in the context of the Howard Flack Crystallographic Lecture Series.

A few international meetings take place in 2024, which are particularly relevant for our members. Swiss participation to these meetings is an important contribution to create and foster our network. You will find a summary of dates on the last pages of our newsletter, the principal ones being the ECM34 in Padova, the Epdic18 in Padova and the ECCG8 in Warsaw. Still in Padova, the SSCr will be bidding to host Epdic19 in the Swiss alps in 2026. Please spread the message and support our bid in whichever way you can.

I look forward to see many of you throughout the year, and many more at our next annual meeting in Basel, in September.

Pascal Schouwink

Report of the Annual Meeting of the SSCr 2023

By Bernhard Spingler

After more than twenty years, the annual Meeting of the Swiss Society for Crystallography took again place at the University of Zurich. The event on the 8th September had been organized by Prof. Bernhard Spingler. Almost 80 participants, mainly from Switzerland, but also from the neighbouring countries as well as UK, Spain and Saudi Arabia, attended the meeting. The three invited speakers Dr. Brian Paww from the Bundesanstalt für Materialwissenschaft, Berlin; Prof. Raimund Dutzler from UZH and Prof. Clemens Richert from the University of Stuttgart all gave fascinating talks, whose topics ranged from Small Angle X-ray Scattering (SAXS) over membrane proteins to the co-crystallization of liquids. Additional twelve speakers gave great insights into the fields of materials, biochemical and chemical crystallography. Dr. Margarita Rekhina was awarded the PhD prize of the Swiss Society for Crystallography 2023 for her thesis entitled “Structural dynamics of NaNO₃-promoted MgO-based CO₂ sorbents”, which she then summarized in her presentation. An exhibition by seven, renowned companies gave the participants the opportunity to discover the latest commercial developments in crystallography and adjacent areas.





Photographs during the Annual Meeting of the SSCr 2023 - University of Zurich
Images: Courtesy by Ms. Flavia Kradolfer

2023 Crystallographic Howard Flack Lecture Series

06.10.2024

By Pascal Schouwink

The Howard Flack Crystallographic Lecture Series saw its 5th edition in 2023, in its 6th year, having missed one edition during the pandemic in 2022. This lecture series has found an excellent speaker line-up since its creation, and in 2023 Simon Billinge (Columbia University, NY) provided us with the pleasure of an exciting week filled with lectures and discussion rounds at different Swiss institutions, which inevitably has resulted in new collaborations.

Simon's lectures focussed on the structural investigation of local order, but went far beyond the crystallographic particularities of determining local structure. In this view, the audience was allowed to discover how machine-learning-data analytics can not only be applied to the analysis of PDF data, but also to trace common denominators that lead to the question as to whether materials may have a genome. From the mountains of the Western Alps to the large cities of Eastern Switzerland Simon spent the week of 6.11.2023 highlighting his research at EPFL Valais Wallis, the Universities of Bern and Basel, ETHZ, the detector-manufacturer Dectris AG and the Paul Scherrer Institute.

The demand for total scattering experiments, and PDF analysis, is increasing quickly in Switzerland, as colleagues and students become aware of the method and as the method itself becomes more user-friendly and easier applicable. Materials science (in the broadest sense) research groups delve more deeply than ever into structure-property relationships of nanostructured systems and devices made up of them, be it



Photographs during Simon Billinge's lecture, Hönggerberg campus, ETH Zurich.

Courtesy Qin Zhang

at large facilities or through the addition of customized lab infrastructure. The crystallography of local order in devices, reactors and other “real-life” samples situations can surely (still, or again?) be considered a hot topic of contemporary crystallography, and Simon’s lectures were well visited by a pluri-disciplinary audience (seen below at ETHZ).

In-line with this trend, and responding to this demand, the Society is organizing a topical workshop on PDF analysis, which will precede this year’s Annual Meeting in September. Please find the announcement in this issue of our newsletter.

Also, this year, in November, the Flack Lectures will see their 6th edition. Dan Shechtman (Technion, Tel-Aviv) will be giving us the honour on this occasion, you will find the program in this newsletter.

Small Angle Scattering workshop – ETHZ, Höggerberg,

07.09.2023

By Pascal Schouwink

During the Society's Annual Meeting in Bern, September 2022, the idea of organizing an annual, topical, workshop was elaborated in a dedicated session and together with students and young colleagues from all over the country, with diverse scientific backgrounds. The conclusion of this session showed that the prospect of such a workshop was not only welcome but would actually respond to an urgent need that students are feeling as X-ray methods dealing with structural science become increasingly complex, and less represented in regular university curricula.

The society decided to launch this workshop with the topic of Small Angle X-ray Scattering, on the day prior to the annual meeting in Zürich, 2023. Initially limited to 20 participants, the workshop was booked out within 24 h after its announcement through our digital channels. It was decided to move to another site in order to extend the number of available spots. The final number of registrations was 67. This should attract our attention, as it points toward an alarming gap in the general formation of our young colleagues.

Our first topical workshop, held at ETHZ Höggerberg, took students from sample preparation, through different types of instrumentation in home laboratories and at large facilities, to different general ways of modelling data. Participants were also given an on-site tour on a state-of-the-art laboratory SAXS beamline, of which still only very few exist in the country.



Brian Pauw (BAM) doing live Fourier Transform with his smartphone (left), Heiner Santner (Anton-Paar) introducing model-independent data analysis (right).

The feedback on this day was very positive, with a number of remarks to include more demos in data treatment and modelling in the future, which further corroborates the utility of such events. We are considering this request in the planning of our 2024 topical workshop, which will focus on Pair Distribution Function analysis, and take

place beginning of September. You will find the announcement in this newsletter or on <https://swiss-crystallography.ch/>.



Much thanks to our speakers Antonia Neels (EMPA), Stefan Salentinig (Uni Fribourg), Vivian Lütz Bueno (PSI), Thomas Weber (ETHZ), Heiner Santner (Anton-Paar), Carlotta Giacobbe (Xenocs), Brian Pauw (BAM).

Awards and prizes 2023

2023 Bragg Prize awarded to Arkadiy Simonov



Congratulations to Professor Arkadiy Simonov on being awarded the 2023 W.H. and W.L. Bragg Prize for outstanding early-career crystallographers! This prestigious award, established by the International Union of Crystallography (IUCr), recognizes Prof. Simonov's groundbreaking work in developing the three-dimensional difference pair distribution function (3D- Δ PDF) approach, which has significantly impacted the field of crystallography.

Prof. Arkadiy Simonov has distinguished himself as a leading young researcher in the interpretation of diffuse scattering from single crystals over the past decade. His doctoral studies at ETH Zurich, under the guidance of Dr. Thomas Weber and Professor Walter Steurer, resulted in the development of the YELL code, a critical tool for fitting 3D- Δ PDF in terms of pairwise correlation parameters. This innovation established a fundamental approach for refining the diffuse scattering contribution to single-crystal diffraction patterns, leading to significant advancements in understanding complex materials. As an active member of the SSCr, Arkadiy has also made notable contributions to crystallography education in Switzerland. His Keynote Lecture at the 26th IUCr Congress in Melbourne, Australia, in August 2023, showcased his groundbreaking contributions to the field, further solidifying his reputation as a leader in crystallography. We extend our heartfelt congratulations to Arkadiy on this well-deserved recognition, and we take pride in his remarkable achievements!



Thomas Weber Receives the Will-Kleber Commemorative Coin

Dr. Thomas Weber, head of the X-ray platform at D-MATL, has been honored with the prestigious Will-Kleber Commemorative Coin by the German Society for Crystallography in recognition of his outstanding cross-material class research on disorder in periodic and quasiperiodic crystals. This esteemed award, bestowed annually, celebrates individuals who have made significant advancements in selected fields of crystallography.

Thomas's scientific work focuses on methodological advancements in studying disordered crystals using diffuse X-ray scattering. Disordered crystals, characterized by deviations from strict long-range order, present unique challenges in crystallography. Understanding the local order within these materials is crucial for deciphering various physical and chemical properties, such as electric and magnetic polarization states, as well as tracking solid-state reactions. Thomas's research outcomes offer enhanced characterization and facilitate easier access to phenomena within disordered crystals. His pioneering efforts contribute significantly to advancing our understanding of complex materials and their properties.

We congratulate Thomas Weber on receiving the Will-Kleber Commemorative Coin and commend him for his exceptional contributions to the field of crystallography!

SGK/SSCr Travel Grants 2023 - Second Semester

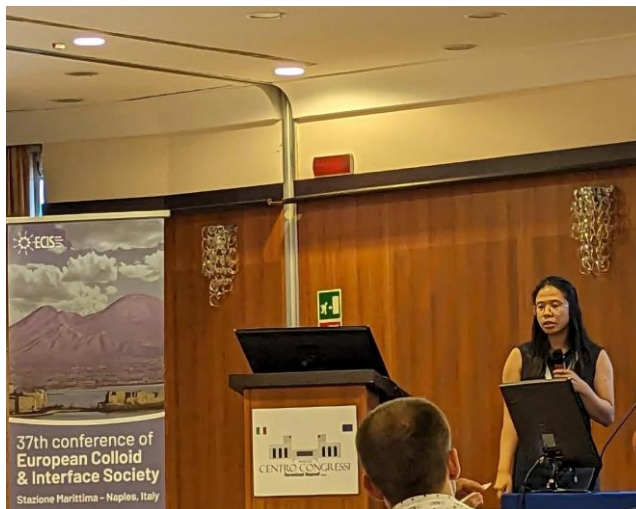
We congratulate the recipients of the travel grants in 2022: Bettina Tran and Samuel Watts.

ECIS 2023 – Bettina Tran (University of Fribourg)

03-08 September 2023, Naples, Italy

Colloids and interfaces are found in all aspects of our lives. Whenever two different components or chemicals meet, there is an interface. Attending a conference on this topic to exchange with scientists in these fields and to get inspired, enriched my experience as a PhD student.

The European Colloids and Interface Society is a large community covering all aspects of colloidal and interfacial science from theoretical modelling to fundamental or application-based research. All those topics were presented during the conference with four parallel sessions and gave the opportunity to more researchers to talk about their research. I was among them and had the pleasure to give an oral presentation on “Colloidal crystallisation of viruses in the presence of polycationic polymers characterized by SAXS”. I took the chance to emphasize how we can use pre-made natural building blocks such as viruses to make nanostructured materials. As well as emphasised on advantage of using scattering techniques to characterize and follow the assembly process. It was a great experience to answer curious questions from the audience and gain a new perspective on my own research.



As a characterisation enthusiast, it was enjoyable to see the increase of scattering-based characterisation among all different topics, making it easy to connect with people from different fields. I really enjoyed this opportunity to learn more about how people developed new techniques to answer their scientific questions and widen my view on how to build a link between my own research with those of others.

In this regard, I thank the SCNAT and SSCr again for granting me the SSCr Travel Award to travel to the conference and to support the presentation of my research.

IUCr 2023 - Samuel Watts (University of Fribourg)

22–29 August 2023. Melbourne, Australia

The International Union of Crystallography 2023 conference took place in Melbourne. It had several sessions that allowed to bring together a breadth of researchers ranging from structural biologists, and material scientists, to instrumentation developers. I was presenting my work on the interaction of antimicrobial peptides with lipid-enveloped viruses in the session on lipidic materials. This session was focused on the study of

self-assembled amphiphilic molecules with talks on milk digestion, and drug delivery, as well as the study of bicontinuous and tricontinuous nanostructures. My presentation highlighted the modification of the lipid envelope and its separation from the virus core as the mechanism of inactivation of enveloped viruses by a human antimicrobial peptide.

The variety of research topics addressed in the different sessions allowed me to develop an understanding of the current topics in several fields. A current hot topic that was a highlight to me was the effect of Artificial Intelligence (AI) on the workflows in structural biology as well as its current limitations and future developments and improvements. My take-home message is that the *in silico* calculations will not replace experimental data any time soon and that AI allows for improved refinement of the electron density fitting.

Throughout the conference, I was able to meet researchers working on various topics, including the Australian-based soft matter community. The high-quality coffee and a very active music scene of Melbourne allowed for some enjoyable networking opportunities out of the conference venue with new and old friends. Overall, the conference was a highlight of 2023. Thanks to the good reception of my research by the community, the possibilities to meet new people, and the exposure to different areas of science.

Announcement: Lecture Series 2024



Swiss Society for Crystallography The Howard Flack Crystallographic Lecture Series On the topic: Quasi-periodic materials

The 2023 Howard Flack Lecture Series will focus on quasi-periodic materials with Professor Dan Shechtman as our invited Flack Lecturer. Dan will tell his story of the discovery of aperiodic order in crystalline materials by electron microscopy that led to the Nobel Prize in Chemistry in 2011. He will further discuss the development of magnesium alloys for various applications, including biodegradable implants.

November 6th and 7th, 2024

Nobel Laureate Professor **Dan Shechtman, Technion Haifa
Lecture in Zurich, broadcasted online**

More details will be announced on:

swiss-crystallography.ch/en/flack_lectures and twitter.com/Swisscrystallog

Dan Shechtman is a metallurgist and electron microscopist by training. From 1975 on, he has been working at the Technion in Haifa, Israel, starting from a Lecturer position to a Distinguished Professor. In 1982, he spent a few months in the U.S., carrying out research at the National Bureau of Standards (now known as NIST), where he was searching for new rapidly-quenched aluminium-based alloys. Since rapid quenching yields very small grain sizes, transmission electron microscopy was the method of choice to characterize the new materials by analyzing both the real-space structure and the diffraction in very small, thin samples. In one certain composition (Al_6Mn), Dan found a diffraction pattern that was tenfold symmetric, hence aperiodic, which was believed to be forbidden at the time. This was the starting point for a revolutionary development in crystallography and materials science. An interdisciplinary community formed in different fields such as mathematics, physics and chemistry that built upon his discovery. Today, Dan is still working in materials engineering with an interest to find new alloys with broad applications.

The **Howard Flack Lecturer Award** is conferred annually by the Swiss Society for Crystallography on a scientist who has made significant contributions to the field of structural science or involving the use of structural science in the natural or
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medicinal sciences. The awardee is then invited for a week-long tour of Switzerland to present seminars as part of The **Howard Flack Lecture Series** at one or several Swiss institutions and research facilities.

The Howard Flack Lecture Series was created by the SGK/SSCr in 2018 in honor of **Howard Flack** (1943–2017), a colleague and a friend, who is remembered for his enormous contributions to crystallography and structural science in general and to Swiss science in particular. This initiative has attracted interest from the Swiss Academy of Sciences (Platform, Mathematics, Astronomy and Physics, to which we belong), which partially sponsors the lecture series.

Howard undertook his PhD studies with Kathleen Lonsdale at University College London, then worked as a research assistant in the Cavendish Laboratory in Cambridge, UK. How better to become interested in research and crystallography? He moved to the Laboratoire de Cristallographie at the University of Geneva, Switzerland, in 1971 and spent the rest of his career there. David Watkin and Dieter Schwarzenbach eloquently describe his life and work in *J. Appl. Cryst.* **2017**, *50*, 666.

Howard made many significant contributions to the field of crystallography but is perhaps best known for his seminal ideas concerning the determination of absolute structure by X-ray diffraction, which originated in 1983, but were constantly improved upon and extended until his untimely passing. Prior to 1983, it was challenging to determine the absolute configuration of chiral organic molecules, although this information was vitally important for many chemists and for the pharmaceutical industry, in particular. Howard developed a robust mathematical algorithm, which improved substantially the ease and reliability of the absolute structure determination. This algorithm is now incorporated in all the usual software programs and produces a value, now known widely as the Flack parameter, which most people take for granted these days. This development is described articulately by David Watkin in *Tetrahedron: Asymmetry* **2017**, *28*, 1189. Additional information on absolute structure determination can be found in A. Linden, *Tetrahedron: Asymmetry* **2017**, *28*, 1314 and references therein.

Howard was a humble man, who had a special sense of humor. The Swiss Society for Crystallography is proud to name an award and lecture series in his honor.

Announcement of the SGK / SSCr Annual Meeting 2024



Swiss Society for Crystallography Annual Meeting 2024

Basel Sep 11th – Workshop and Dinner
Sep 12th – Meeting

Switzerland Innovation Park Basel Area
AG
Hegenheimermattweg 167A
4123 Allschwil, Switzerland



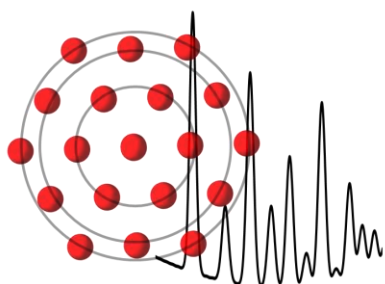
Format: On-site.

Registration and Invited Speakers will be announced on our web site.

See you soon in Basel!

Announcement of the SSCr Workshop 2024

Swiss Society for Crystallography
Workshop – 11.09.2024, Basel



Pair Distribution Function

SSCr workshop on PDF principles and applications, 11.09.2024

The workshop will introduce to:

- PDF principles
- Instrumentation (laboratory and large scale)
- Data collection, reduction and basic modelling
- Software tools and approaches
- Applications

The workshop is intended for graduate and postgraduate students, newbies to the subject, with speakers from academic research labs, large scale facilities and companies supplying PDF instrumentation and software.

Topics will be discussed in an introductory manner, including examples and/or demos. Participants will be provided with information on where to follow up in detail on different subjects.

Participants are invited, and encouraged, to join the annual meeting of the Swiss Society for Crystallography the day after, 12.09.2024.

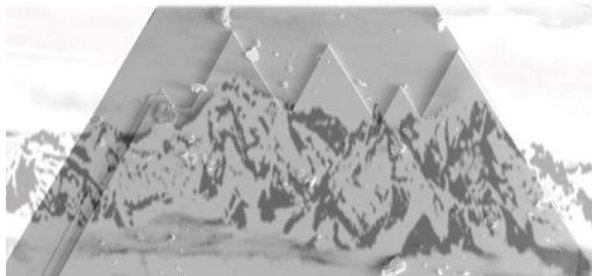
The workshop will be held on-site only.

Registration will be open soon.

Web: <https://swisscrystallog-pdf2024.epfl.ch>

Announcement “Tips and Tricks for the crystal growth of inorganic materials”

Workshop on Tips and Tricks for the
Crystal Growth of Inorganic Materials



26th – 27th August 2024
Paul Scherrer Institut, Switzerland

Abstract submission

5th April – 15th May 2024

Organising committee

Monica Ciomaga Hatnean (Chair, PSI); Dariusz
Jakub Gawryluk (PSI); Enrico Giannini (UNIGE);
Ekaterina Pomjakushina (PSI); Sabine Pfeifer (PSI)

Invited speakers

Geetha Balakrishnan

University of Warwick, UK

Anna Böhmer

Ruhr-Universität Bochum, Germany

Christo Guguschev

Leibniz-Institut für Kristallzüchtung, Germany

Tomasz Klimczuk

Politechnika Gdańska, Poland

Karl Krämer

Universität Bern, Switzerland

Nicola Marzari

École polytechnique fédérale de Lausanne, Switzerland

Pascal Pupal

Max-Planck-Institut für Festkörperforschung, Germany

The main goal of the workshop on Tips and tricks for the crystal growth of inorganic materials is to bring together experts from the Solid State Chemistry and Condensed Matter Physics communities in order to discuss the accomplished progress and perspectives for future developments in the synthesis and crystal growth of materials with novel and interesting physical properties. The meeting proposes an exciting scientific program covering topics from the main growth techniques used to prepare crystals of inorganic materials to theoretical prediction work. The workshop will enable further discussions and collaborations between internationally leading specialists in crystal growth and condensed matter physics. Young researchers are highly encouraged to contribute to the field and to engage in discussions with the crystal growth experts present at the meeting.

More information: <https://indico.psi.ch/event/15694/overview>

Contact: crystal.growth@psi.ch

Calendar of Events



Erice crystallography school: powder diffraction

31 May - 8 June 2024



Erice, Sicily



<https://crystalerice.org/2024/>



ETH-EPFL Summer School: Synchrotron Diffraction and Scattering for Advanced Materials Research

May 13 - 17 2024



Grenoble, France



<https://sites.google.com/view/bm01school2024/>



4th Spring Pharmaceutical Synchrotron-XRPD Workshop

10-11 June 2024



Basel, Switzerland



<https://sps-xrpd.excelsusss.com/>



ECM34: 34th European Crystallographic Meeting

26-30 August 2024



Padova, Italy



WWW.ECM34.ORG



Electron crystallography school EICryS24 (satellite ECM34)

24 - 26 August 2024



Padova, Italy



<https://elcrys24.sciencesconf.org/>



EPDIC18: The 18th European Powder Diffraction Conference

August 30th to September 2nd, 2024



Padova, Italy



<https://epdic18.org/>



Workshop on Tips and tricks for the crystal growth of inorganic materials

26-27 of August 2024



Villigen, Switzerland



<https://indico.psi.ch/event/15694/>

The Zurich School of Crystallography 2024: Bring Your Own Crystals



17-29 Jun 2024



University of Zurich, Switzerland



<https://www.chem.uzh.ch/linden/zsc/>

8th European Conference on Crystal Growth



21-15 July 2024



Warsaw, Poland



<https://eccg8.syskonf.pl/>

4th European School on Crystal Growth



17-21 July 2024



Jachranka near Warsaw, Poland



<https://www.encg.info/events.html>

Calls for proposals at large scale facilities

Beside normal proposals, most facilities allow urgent beam time requests. Please check directly with the facility. (tba = to be announced)

Facility	Deadline(s)	Link
SLS		
All except non PX	suspended	
Protein crystallography (PX)	suspended	
SINQ/SLS		
Joint x+n proposals (MS/HRPT)	suspended	
SINQ		
All instruments regular calls	15.05, 15.11	https://www.psi.ch/de/useroffice/proposal-deadlines
SμS: Swiss Muon Source		
DOLLY, GPD, GPS, HAL-9500, LEM	01.06, 01.09	
SwissFEL		
ARAMIS-Alvra, ARAMIS-Bernina	15.03, 15.09	
ESRF		
Standard proposals	01.03, 10.09	http://www.esrf.fr/UsersAndScience/
Long Term Project and HUB proposals	16.01	
CRG SNBL	01.03, 10.09	www.esrf.fr/UsersAndScience/Experiments/CRG/BM01# For more details on the access mode to SNBL: wouter@esrf.fr
ILL	tba	www.ill.eu/users
FRM II	tba	http://www.mlz-garching.de/user-office/
SNS Oak Ridge	30.08	http://www.neutrons.ornl.gov/users/proposal-calls
DESY	tba (typically 01.03 01.09)	https://photon-science.desy.de/users_area/calls_deadlines/index_eng.html

Information about Travel Grants for SSCr Members

Our Society is supporting members participating at international conferences, workshops and schools.

Conditions for travel grants for young SSCr members (under 35):

- Only current members of the SSCr can be supported financially (annual membership must be paid).
- Student members can get up to CHF 500 for a poster presentation and CHF 750 for an oral presentation. Attendance at a workshop or school outside Switzerland, if the program does not permit participant presentations, can be supported with CHF 500.
- Postdocs can be supported only for oral presentations with a maximum of CHF 500.

Per institute and year, a maximum of two persons can be supported.

Please submit applications to the President of the Society via swiss.crystallography@gmail.com including the following:

- conference abstract if applicable, type of presentation/involvement and letter of motivation
- letter of support from your supervisor
- brief budget of expected costs of attending the meeting
- specify the date you first joined the SSCr

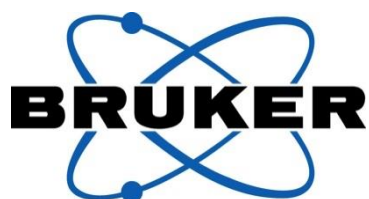
A 1-2 page scientific report for the SSCr newsletter is expected within 2 months of the meeting.

Financial support can also be granted to retired SSCr members:

- Active participation at an event is required: e.g. presentation, lecture, session chair, organizer
- Young researchers have priority if our budget is limited
- The grant amount will be decided by the board, depending on the available budget

Institutional members and supporting institutions

Corporate members



Supporting institutions

Members of the Board of the SSCr for the period 2023 – 2024



Pascal Schouwink
President
EPFL Valais Wallis



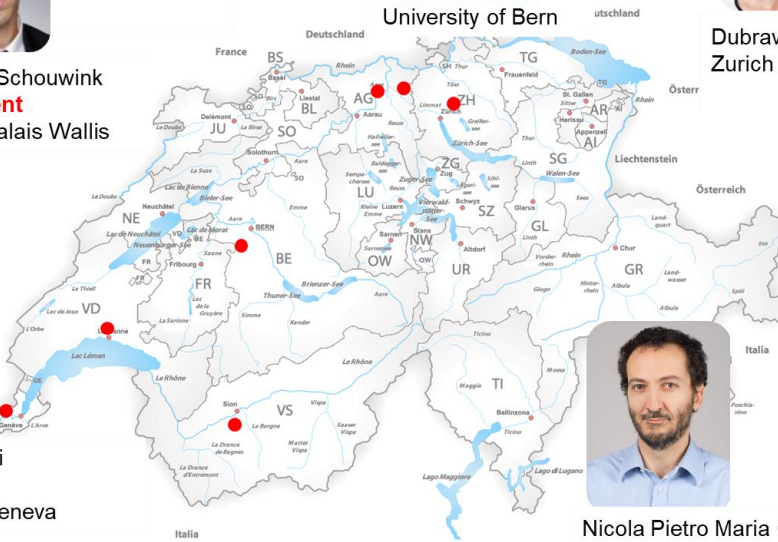
Simon Grabowsky
Vice-President
University of Bern



Dubravka Sisak
Zurich Instruments



Enrico Giannini
Treasurer
University of Geneva



Paula Abdala
Secretary
LESE-ETHZ



Nicola Pietro Maria Casati
Events organization
Material Science Group PSI

Candidate for the next period:



Céline Besnard
University of Geneva

Auditors:



Prof. Dr. Bernhard Spingler
University of Zurich



Prof. Dr. Antonia Neels (EMPA)

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